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(gather\$6 or analyz\$3 or collect\$6) near5 patient near5 (data or information or file or history) same diagnos\$6 near5 (malad\$3 or ill\$6 or sick\$6 or disease)	47

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L20

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<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
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END OF SEARCH HISTORY

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Generate Collection

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L20: Entry 16 of 47

File: USPT

Aug 21, 2001

DOCUMENT-IDENTIFIER: US 6277071 B1  
TITLE: Chronic disease monitor

Brief Summary Text (11):

The use of statistical analysis to create a diagnostic model for a given disease has been employed to create trained neural networks. U.S. Pat. No. 5,769,074 to Barnhill et al, discloses a computer based method which employs the steps of collecting data about patients (such as biological, physical, demographic, racial, environmental); digitizing the data and medical historical data; selecting digitized values that are associated with the diagnosis of a disease; scaling the data; performing tests to analyze the discriminating power of the data; grouping individual data values; preprocessing the data; inputting selected data to make pre-processed values into a computer based neural network in order to train the neural network; analyzing the contributions of the individual data inputs to the network; selecting the optimally trained neural network based on the performance, accuracy and cost; and inputting other patient data into the neural network to produce an output value which indicates whether the patient may have or be susceptible to the disease. Such technology has application to diagnostic patterns which are too subtle or too complex for humans and conventional computational methods to identify and allow for the provider to access large neural networks which are capable of recognizing diagnostic patterns. U.S. Pat. No. 5,860,917 to Comanor, et al, discloses such a neural network with a statistical model derived using a robustified similarity metrical least squares (SMILES) analysis.